



**Minutes of P-4 Committee on Mechanical Outlines of Passive Components**

**Tuesday, 06 October, 2009 DoubleTree Downtown, Savannah, GA**

**Scope of the P-4 Committee on Mechanical Outlines of Passive Components –**  
Provide standardization, administration, and circulation of mechanical outline drawings of electronic parts formatted per PDP-100 provided by industry participants.

- 1.0 Call to order
  - 1.1 Chair Carl Lindquist called meeting to order 4:40 PM
  - 1.2 Introductions
- 2.0 Membership and Attendance

<b>NAME</b>	<b>COMPANY</b>
Mike Lauri	IBM
Carl Lindquist	Consultant
Laird Macomber	Cornell Dubilier Electronics
Darin Glenn	Vishay-Dale
Jayson Young	KEMET
Joe Biernacki	Stackpole
Lanney McHargue	Murata Electronics, N.A. Inc.
Brian Piscitelli	KOA Speer Electronics, Inc.
Brian Anderson	KOA Speer Electronics, Inc.
Ted Coler	Vishay
Ed Mikoski	EIA/ECA

2.1 The membership list was reviewed and adjusted to read as reflected in the following table:

<b>Member Organizations Present</b>	<b><u>Present at this meeting</u></b>	<b><u>Present at previous meeting?</u></b>	<b><u>Present at meeting prior to previous?</u></b>
Cornell Dubilier	Y	Y	Y
IBM Corporation	Y	Y	N
Kemet	Y	Y	Y
KOA Speer Electronics	Y	N	N
TDK	N	Y	Y
Vishay	Y	Y	N
Stackpole Electronics	Y	N	Y
Murata Electronics, N.A., Inc.	Y	N	N

<b>Other Organizations Present</b>
EIA/ECA

- 3.0 Attendance sheet circulated
- 4.0 Agenda reviewed and accepted without change.
- 5.0 Meeting minutes were reviewed and accepted without change.
- 6.0 General Discussion
  - 6.1 Role of ECA in Mechanical Outline Database Maintenance
    - 6.1.1 Database Development and Upgrades

Software employed still includes Design CAD and Excel/Visio. While the Excel/Visio format had been used by Mike Griffith, KOA Speer, it was noted that few participants have access to Excel/Visio software. We also have AutoCAD files to be reviewed.

6.1.2 Database Content Maintenance

All approved and pending editable files, as well as the associated PDF files, were provided to Ed Mikoski for archiving. It was noted again by the chair that we will need to have the PDF and Development Files for each Mechanical Outline for future maintenance. These files will be archived at the ECA Headquarters.

We had reviewed the remaining radial lead resistor RRBM outlines (39) and it appears that they are identical with the previously approved RRBC versions for the same dimensions. The RRBM device dimensions are in tenths of millimeters, while the approved RRBC versions are in millimeters. These were originally drafted by Mike Griffith, KOA, and he is no longer at this position. If these are duplicate outlines, we should discuss the duplication and possibly remove them from our matrix. If they are not duplicate outlines, we should confirm that there are actually existing devices with these very small dimensions. Brian Piscitelli, KOA Speer, will review and advise.

There were also several AutoCAD files found by Carl Lindquist. It was agreed that Brian Piscitelli, KOA Speer, and Carl Lindquist will continue to review the remaining files to determine if they are repeats or new for review by P4. We will review these Mechanical Outlines at the next meeting for acceptance.

Copies of the File Status Matrix and Outline Revision History files were provided via E-Mail to Ed Mikoski on 10/09/2009 as a result of the meeting findings.

6.1.3 Two Action Items were agreed upon:

- a) Brian Piscitelli will work on review of possibly duplicated resistor outlines to determine if they are already covered in approved files, or must be reviewed further by P4 as new outlines.
- b) Brian Piscitelli agreed to review IPD outlines. While these will be reviewed, it was determined that the IPD P10 Committee will be reviewed for possible discontinuance due to the unique characteristics of these components. With regard to Mechanical Outline numbering, we do not care if the IPD is a single component style (e.g. all capacitors) or multiple component style. Therefore, the existing Outline Numbering system will work.

6.1.4 The new ECA Mechanical Outline database page online is working and should be opened for further review by members of P4. Company names associated with specific Outlines and Variations should not be provided until it has been determined that the site is acceptable to all members of the P4 Committee. It was agreed at the last meeting that a new operational page would be made available on-line for members. While there was mention that this page would not require password protection, it was noted that if no password protection is provided, the Mechanical Outlines will be quickly disbursed on search sites, such as Google. This issue should be taken up by the ECA IT group.

6.1.5 In earlier discussions (Fall 2008) with Bob Willis, ECA President, some concern was expressed by Mr. Willis that direct access to the Mechanical Outline "VARIATIONS" may cause legal problems with those that are not provided access because they are not members. There are also questions regarding the accuracy of the dimensions given in the "VARIATIONS". If they are not accurately portrayed on the site, who is liable? Because of these questions, it was decided that we would proceed with the database, but hold off on actual linkage to the manufacturers' Web Sites from the "VARIATION" at this time. It will be acceptable for participating companies to reference a specific Mechanical Outline and "VARIATION" in their data sheets and catalogs. Linkage to EIA documents related to the specific Mechanical Outline via a link to the Outline number will proceed.

6.2 The "Guideline for Preparation and Submission of Mechanical Outlines for Passive Electronic Components to EIA/ECA-PDP-100, Rev. C (Draft 1) was provided to Ed Mikoski in the 10/09/2009 E-Mail. Changes discussed at the P4 meeting were incorporated.

7.0 Mechanical Outlines

7.1 Proposed New Outlines for Approval

7.1.1 Acceptable Drawing Layouts

7.1.1.1 There were no changes to the list of acceptable File formats. While the other formats will remain, members will attempt to get DesignCAD for future preparation of Mechanical Outlines.

7.1.1.2 The final format will remain PDF.

7.2 Approval of new outlines

No new Mechanical Outlines were submitted or reviewed. As noted in 6.12 and 6.13, above, Brian Piscitelli will review existing old files.

7.3 Assignments Associated with Various Passive Components

7.3.1 Committees

7.3.1.1 Fuses – No new outlines submitted

- 7.3.1.2 Capacitors – No outlines submitted
- 7.3.1.3 Resistors – No new outlines submitted
- 7.3.1.4 Inductors – No new outlines submitted.
- 7.3.1.5 Integrated Passive Devices (IPD's) – No new outlines submitted.

8.0 Mechanical Outline Web Site Development and Maintenance

8.1 Drawing generation and coordination

- 8.1.1 Fuses – Carl Lindquist, Consultant
- 8.1.2 Resistors – Joe Biernacki / Brian Piscitelli / Ted Coler
- 8.1.3 Capacitors – Jayson Young / Mike Richardson / Mike Cannon
- 8.1.4 Inductors – William Gisseler
- 8.1.5 Integrated Passive Devices (IPD's) – Brian Piscitelli

8.2 It was agreed that ECA member companies will eventually be able to link from “Variations” identified on each Mechanical Outline to their own Web Sites. However, the ECA will only be responsible for creating the link. Each member company will be responsible for all maintenance beyond the link. There will also likely be a need for a legal disclaimer prior to permitting final connection.

9.0 New Business – None

10.0 Old business – None

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11.0 Announcements – None

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12.0 Next Meeting – Spring 2010, Orlando, FL

13.0 Adjournment at 05:15 PM

We thank all present for their participation.

This meeting was conducted in accordance with the EIA Legal Guidelines and the Manual of Organization Procedures.



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Carl E. Lindquist  
Chairman

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Secretary